



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 11, 2011

MEMORANDUM:

Subject: EPA Reg. No.: 5382-46 / Chlorite Plus CD-2
DP Barcode: 389200
Case No.: 4023

From: Bentley C. Gregg, Biologist [sign. B.C. Gregg & 2nd M. Perry]
Risk Management and Implementation Branch V
Pesticide Re-evaluation Division (7508P)

To: Veronica Dutch, CRM
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Pesticide Re-evaluation Division (7508P)

Applicant: Occidental Chemical Corporation¹
P.O. Box 809050
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FORMULATION FROM EPA Reg. No. 5382-46 LABEL:

	<u>% by wt.</u>
<u>Active Ingredient(s):</u>	
Sodium Chlorite:	2.80%
<u>Other Ingredient(s):</u>	97.20%
Total	100.00%

1. OPPIN Query specifies that the registrant is "Basic Chemicals Company, LLC", while the Data Matrix, CSF, and Revised Draft Label all list the information above (although the label does specify "Manufactured by ..").

BACKGROUND: In their 8 month response to the Chlorine Dioxide and Sodium Chlorite (020502) RED, the registrant is citing some previously submitted acute toxicity studies to support the reregistration of their subject product, EPA Reg. No. 5382-46. The registrant is citing MRIDs 147477 (81-1, 81-2, 81-4, 81-5), 424841-01 (81-3), and 484653-01 (81-6). The earliest MRID (147477) was conducted by Northview Pacific Laboratories, Inc. (1985), utilizing as the test material EPA Reg. No. 21164-3, "Dura Klor", a product containing 8.5% Sodium Chlorite (according to OPPIN Query). This MRID (1985) reported the testing results for acute oral and acute dermal toxicity, as well as the primary eye and primary dermal irritation studies, and was reviewed by TSS / Disinfectants Branch, on 05/31/85. The acute inhalation study (424841-01, 1992) was conducted by International Research and Development Corp., and had been submitted by Albright and Wilson (a Technical Registrant at that time), for the Sodium Chlorite Reregistration Task Force, as submitted by Delta Analytical and the Chlorine Dioxide Panel of the Chemical Manufacturers Association. The material tested was specified as Sodium Chlorite at a purity of 80.6%, which corresponds to the "80.0%" purity of the 5 TGAs currently listed in OPPIN Query. This MRID had been reviewed by Toxicology Branch I / HED, on 05/19/93, and found to be acceptable (CORE-MINIMUM DATA). The registrant has also submitted MRID 484653-01, a Robust Summary (5 pages) from the High-Production Volume Challenge Program, the five-page Appendix for Skin Sensitization (dated July 2007); testing results are listed, but there are insufficient data for the Agency to assess the acceptability of the study data. (Note that our search of the MRIDs listed in OPPIN Query reveals at least 5 dermal sensitization studies for Sodium Chlorite, four of which have been submitted since 2003). RMIB V concurs with the two earlier previous reviews, by the Disinfectants Branch and by Toxicology Branch I, for Guidelines 81-1 to 81-5, but due to the submission of insufficient data for dermal sensitization, 81-6, the registrant must cite or submit an acceptable study for 81-6, dermal sensitization.

RECOMMENDATIONS:

- The acute toxicity studies cited for 81-1, 81-2, 81-3, 81-4, and 81-5 are acceptable to support the reregistration of EPA Reg. No. 5382-46, but the registrant must cite or submit an acceptable dermal sensitization study (81-6).

The acute toxicity profile for EPA Reg. No. 5382-46 is currently:

Acute Oral	III	Cited (LD ₅₀ = 2,600 mg/kg, females; 3,600 mg/kg, males)
Acute Dermal	III	Cited (LD ₅₀ = 2,000 mg/kg; deaths: 0/5 males & 0/5 females)
Acute Inhalation	II	Cited (LC ₅₀ = 0.29 mg/L)
Primary Eye	III	Cited
Primary Dermal	IV	Cited
Skin Sensitization	DATA GAP	

NOTE: The acute toxicity requirements have NOT been satisfied for the subject product, and the registrant must cite or submit an acceptable dermal sensitization study.

PROVISIONAL

LABELING:

ID #: 005382-00046

CHLORITE PLUS CD-2

SIGNAL WORD:

WARNING

HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. May be fatal if inhaled. Do not breathe vapors or spray mist. Wear long-sleeved shirt and long pants, socks and shoes, and chemical-resistant gloves (such as any waterproof material [Selection Category A *]) and a respiratory protection device.

[* If Selection Category A gloves do not provide adequate protection for this product, the registrant should indicate a specific glove category from the EPA chemical resistance chart that will provide adequate protection.]

FIRST AID:

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

USER SAFETY RECOMMENDATIONS:

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
